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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,273	09/25/2001	Naoya Hashimoto	Q65705	8063
75	590 12/16/2004	EXAMINER		
	MION, ZINN, MACPE	ROJAS, BERNARD		
2100 Pennsylvania Avenue, N.W. Washington, DC 20037			ART UNIT	PAPER NUMBER
wasiington, 2			2832	<u></u>

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summan	09/961,273	HASHIMOTO ET AL.
Office Action Summary	Examiner	Art Unit
The MAN INO DATE of the	Bernard Rojas	2832
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	n tne correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a improved to the period for reply is specified above, the maximum statutory perion for reply within the set or extended period for reply will, by state any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT stute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 30 2a) This action is FINAL. 2b) T 3) Since this application is in condition for allow closed in accordance with the practice under 	his action is non-final. wance except for formal matte	•
Disposition of Claims		
4) ☐ Claim(s) 1-6,8-13 and 15-19 is/are pending 4a) Of the above claim(s) 2-6 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,8-13 and 15-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	wn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand rection is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-152)

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-6, 8-13 and 15-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Coulombier [US Patent # 6,310,533 B1].

Claim 1, Coulombier discloses an electromagnetic device body [20, figure 2] including a coil formed with a conductor [14] wound around the bobbin [15] and a cover member [insulating tape, not shown, col. 4 lines 10-20] enclosing the coil. A cover [13] molded around the electromagnetic device body with a molding pressure [col. 3 lines 29-35]. The cover member would inherently protect the coil from the molding pressure when the cover is molded around the cover member since it surrounds the coil.

Claim 17, the cover member is cylindrical since it consists of insulative tape wrapped around a cylindrical coil.

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Claim 18, an electromagnetic device body [20, figure 2] including a coil formed with a conductor [14] wound around a bobbin [15] and a cover member [insulating tape, not shown, col. 4 lines 10-20] enclosing the coil; and a cover [13] molded around the electromagnetic device body with a molding pressure [col. 3 lines 29-35]. Wherein the cover member would inherently protect the coil from being directly subjected to molding pressure when the cover is formed by injection molding, by covering said coil since the cover member surrounds the coil.

Claim 19, an electromagnetic device body [20, figure 2] including a coil formed with a conductor [14] wound around a bobbin [15] and a cover member [insulating tape, not shown, col. 4 lines 10-20] enclosing the coil; and a cover [13] molded around the electromagnetic device body with a molding pressure [col. 3 lines 29-35]. Wherein the cover member would inherently have a material strength to protect the coil from being directly subjected to the molding pressure when the cover is molded around the cover member since the cover member surrounds the coil and prevents the cover material from contacting the coil [col. 3 lines 29-35].

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coulombier [US Patent # 6,310,533 B1] in view of Ghorashi et al. [US Patent #5202187].

Claims 8 and 15, Coulombier discloses the claimed invention with the exception of the thickness of an outer coating of the conductor.

Ghorashi et al. discloses a conductor wire coated with an insulative material. The insulation disclosed is from 1 to 10 mils, at least 4 times larger than the average flash produced on a bobbin as disclosed by applicant.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings to provide a robust insulation that is stable to high temperatures and is resistant to water crazing, cracking and loss of coating [col. 1 lines 59-65].

Claims 9-11 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coulombier [US Patent # 6,310,533 B1].

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Claims 9-11 and 16, Coulombier discloses the claimed invention with the exception of environment in which it is used. It would have been obvious to one having ordinary skill in the art at the time the invention was made to electromagnetic device in various environments, since it was known in the art that an electromagnet of this design is useful in many devices, the specific environment in which the electromagnet is used is a design choice based on the users requirements.

Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coulombier [US Patent # 6,310,533 B1] in view of Trunzo et al. [US Patent 3,676,814].

Claims 12, Coulombier discloses an electromagnetic device with a bobbin [15], a conductor [14] wound around the bobbin.

Coulombier does not disclose that the conductor has an outer coating.

Trunzo et al. teaches a conductor wire coated composed of a welding layer that is made of thermoset epoxy; and an insulative layer that is made of enamel [abs, figure 1]. The insulation disclosed is from 0.001 to 0.005 inches [col. 6 lines 50-60], at least 4 times larger than the average flash produced on a bobbin as disclosed by applicant.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings to provide a robust insulation to prevent the coil windings from shorting.

Claim 13. Trunzo et al. teaches a plurality of adjacent conductors, wherein said welding layer bonds said plurality of adjacent conductors to each other [figure 2B].

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (571) 272-1998. The examiner can normally be reached on M-F 8-4:00), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ELVIN ENAD

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